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Query intermediate language method and system

ML Brundage, CA Suver - US Patent App. 10/601,444, 2003 - Google Patents
Computing Environment 100 Monitor 191 110 196 Printer 197 Speakers Local Area
Network WideAr REMOTE COMPUTER 180 195 Output Peripheral Interface Network
Interface 11Q 130 Processing Unit 120 System Bus 121 User Input Interface ...

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System and method for viewing relational data using a hierarchical schema

ML Brundage, SR Burugapalli, A Conrad, CA Suver, ... - US Patent App. 10/136,883, 2002 - Google Patents
US 20030204511A1 (19) United States (12) Patent Application Publication (io>
Pub. NO.: US 2003/0204511 A1 Brundage et al. (43) Pub. Date: Oct. 30,2003 (54)
SYSTEM AND METHOD FOR VIEWING RELATIONAL DATA USING A HIERARCHICAL SCHEMA ...

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Intermediate language method and system for data source querying

ML Brundage, CA Suver - EP Patent 1,492,032, 2004 - freepatentsonline.com
A computer system and method generate a semantic representation of one or more
XML language inquiries across relational and non-relational data sources. A
semantic intermediate language representation explicitly describes the ...

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[Quilt: An XML Query Language for Heterogeneous Data Sources - •ibm.com \(PDF\)](#)

D Chamberlin, J Robie, D Florescu - LECTURE NOTES IN COMPUTER SCIENCE, 2001 - Springer

... This example uses the **XPath** functions name(element), which ... Relational **data**: XML

representation: ... Quilt: An XML Query Language for Heterogeneous Data Sources 17 ...

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[XML's Impact on Databases and Data Sharing - •mitre-corporation.org \(PDF\)](#)

L Seligman, A Rosenthal - COMPUTER, 2001 - doi.ieeeecs.org

... investigated the use of graph-structured **data** models—such ... XML—as a common

representation for **heterogeneous** information **sources**, including both ...

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[Piazza: data management infrastructure for semantic web applications - •washington.edu \(PDF\)](#)

AY Halevy, ZG Ives, P Mork, I Tatarinov - Proceedings of the 12th international conference on World ..., 2003 - portal.acm.org

... maintain RDF semantics in the XML **representation**. ... **data** management system's **heterogeneous**,

graph-structured ... expressions that define what **source data** should be ...

[Cited by 257](#) - [Related articles](#) - [Web Search](#) - [All 23 versions](#)

[TAX: A Tree Algebra for XML](#)

HV Jagadish, LVS Lakshmanan, D Srivastava, K ... - LECTURE NOTES IN COMPUTER SCIENCE, 2002 - Springer

... once again have to take into account the possible **heterogeneity** of structure ... a tree

value function (TVF) that maps a **data** tree (typically, **source** trees of ...

[Cited by 211](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 12 versions](#)

[\[PDF\] •Querying XML Data](#)

A Deutsch, M Fernandez, D Florescu, A Levy, D ... - Bulletin of the Technical Committee on - mpi-sb.mpg.de

... Object exchange across **heterogeneous** information **sources**. In IEEE International

Conference on **Data** Engineering, pages 251–260, March 1995. ...

[Cited by 77](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 20 versions](#)

[\[PDF\] •Operating systems](#)

SE Madnick, JJ Donovan - 1974 - cs.siu.edu

... external **data sources** and local **sources**, each **source** being a ... labeled trees conforming

to the algebra **data** model; this kind of **representation** also allows ...

[Cited by 152](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 5 versions](#)

[A Design and Implementation of XML-Based Mediation Framework \(XMF\) for Integration of Internet ... - •hawaii.edu \(PDF\)](#)

K Lee, J Min, K Park, K Lee - PROCEEDINGS OF THE ANNUAL HAWAII INTERNATIONAL CONFERENCE ON ..., 2002 - doi.ieeecomputersociety.org

... well as interchange, across **heterogeneous** information **sources** ... global schema definition(**source representation**), target resources ... Common **Data Model OEM Logic Tree** ...

[Cited by 16](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 6 versions](#)

[Querying Heterogeneous XML Sources through a Conceptual Schema](#) - [flimmar.com.br](#) (PDF)

SD Camillo, CA Heuser, R dos Santos Mello - LECTURE NOTES IN COMPUTER SCIENCE, 2003 - Springer

... 1. a global (unified) **representation** for all XML ... to the problem of querying **heterogeneous data sources** through a ... queries against those several **sources** must be ...

[Cited by 21](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 6 versions](#)

[RQL: a declarative query language for RDF](#) - [ntua.gr](#) (PDF)

G Karvounarakis, S Alexaki, V Christophides, D ... - Proceedings of the 11th international conference on World ..., 2002 - portal.acm.org

... of the same Web re- **sources** (eg, &r2 ... proposed for semistructured or XML **data** (eg, LOREL ... model), while resource descriptions hav- ing **heterogeneous** types cannot ...

[Cited by 364](#) - [Related articles](#) - [Web Search](#) - [All 27 versions](#)

[XMark: a benchmark for XML data management](#) - [mpg.de](#) (PDF)

A Schmidt, F Waas, M Kersten, MJ Carey, I ... - ... international conference on Very Large **Data** Bases-Volume 28, 2002 - portal.acm.org

... querying the tag order in the **source** docu- ment ... every query language for XML or semi-structured **data**. ... the original document from its broken-down **representation**. ...

[Cited by 383](#) - [Related articles](#) - [Web Search](#) - [All 24 versions](#)

[PDF] [ToX-The Toronto XML Engine](#)

D Barbosa, A Barta, A Mendelzon, G Mihaila, F ... - Proc. Intl. Workshop on Information Integration on the Web, 2001 - oasis-open.org

... storage mechanisms have different **data representation** and access ... in ToX, thus hiding this **heterogeneity** and reducing ... access patterns of the remote **data source**. ...

[Cited by 38](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 17 versions](#)

[PDF] [XQuery 1.0: An XML Query Language](#)

D Chamberlin, J Clark, D Florescu, J Robie, J ... - W3C Working Draft, 2001 - wiscorp.com

... to intelligently query XML **data sources** becomes increasingly ... broad spectrum of XML information **sources**, including both ... From **XPath** [**XPath** 1.0] and XQL [XQL] it ...

[Cited by 146](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 2 versions](#)

[Retrieving and semantically integrating heterogeneous data from the Web](#)

M Michalowski, JL Ambite, S Thakkar, R Tuchinda, ... - Intelligent Systems, IEEE, 2004 - ieeeexplore.ieee.org

... To efficiently integrate semantically **heterogeneous** information from ... as their applications and **data** needs evolve and ... s ontology and the **source** descriptions is ...

[Cited by 29](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 8 versions](#)

[PDF] [Indexing and Querying XML Data for Regular Path Expressions](#)

Q Li, B Moon - ... OF THE INTERNATIONAL CONFERENCE ON VERY LARGE **DATA** BASES, 2001 - iitl.net

... advent of XML as a standard for **data representation** and exchange ... 10], XML-GL [5],

Quilt [7], **XPath** [8], and ... cable across all types of XML **data sources** from docu ...

[Cited by 654](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#) - [All 46 versions](#)

[XClust: clustering XML schemas for effective integration](#) - [umln.fr \(PDF\)](#)

ML Lee, LH Yang, W Hsu, X Yang - Proceedings of the eleventh international conference on ..., 2002 - portal.acm.org

... simplified access to existing information **sources** and spurred the creation of new **sources**. XML has become the standard for **data representation** and exchange on ...

[Cited by 107](#) - [Related articles](#) - [Web Search](#) - [All 7 versions](#)

[Federating Heterogeneous Data Sources with XML](#) - [free.fr \(PDF\)](#)

TT Dang-Ngoc, G Gardarin - Proc. of IASTED IKS Conf, 2003 - actapress.com

... type R(XPath+, [Path+]), where **XPath's** are defining ... for coding in XML the **representation** or the ... D.: Answering XML Queries over **Heterogeneous Data Sources**, Proc ...

[Cited by 11](#) - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

[\[PDF\] XML Query Languages: Experiences and Exemplars](#)

ATT Mary Fernandez, S Cluet, I Roquencourt, DFI ... - Draft manuscript, September, 1999 - csse.monash.edu.au

... [www-db.research.bell-labs.com/user/simeon/xquery.txt](#) ... concerned with large repositories of **data**, integrating **data** from **heterogenous sources**, exporting new ...

[Cited by 66](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 12 versions](#)

[Knowledge-Based Integration of Neuroscience Data Sources](#) - [sdsc.edu \(PDF\)](#)

A Gupta, B Ludascher, ME Martone - Intl. Conference on Scientific and Statistical Database ..., 2000 - doi.ieeeecs.org

... is explicitly available from a supplemen- tary **source**, the query ... flexible enough to accommodate a wide degree of **heterogeneity** at the **data sources**, and at ...

[Cited by 46](#) - [Related articles](#) - [Web Search](#) - [All 18 versions](#)

[The Piazza peer data management project](#) - [umass.edu \(PDF\)](#)

I Tatarinov, Z Ives, J Madhavan, A Halevy, D Suciu ... - ACM SIGMOD Record, 2003 - portal.acm.org

... our initial work in indexing a semantically **heterogeneous** set of **data** ... LAV) [16], the relations in the **sources** are specified ... im- plies that that the **data** at the ...

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[The Piazza Peer Data Management System](#) - [washington.edu \(PDF\)](#)

AY Halevy, ZG Ives, J Madhavan, P Mork, D Suciu, I ... - IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, 2004 - doi.ieeecomputersociety.org

... large numbers of autonomous, **heterogeneous data sources** by exploiting ... example of three peer (**data source**) schemas (two ... type elements in the **source**, respectively ...

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Key authors: [D Chamberlin](#) - [D Srivastava](#) - [H Jagadish](#) - [S Abiteboul](#) - [D Florescu](#)

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heterogeneous data source representation node

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[Intermediate language method and system for data source querying](#)

ML Brundage, CA Suver - EP Patent 1,492,032, 2004 - [freepatentsonline.com](#)

... be viewed as a semantic **representation** common across ... also be used to perform **heterogeneous**, distributed queries across multiple **data sources** and also ...

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[Towards a Novel Desktop Search Technique](#)

S Pradhan - LECTURE NOTES IN COMPUTER SCIENCE, 2007 - Springer

... s personal **data** scattered across various **data sources** such as ... database-like support for **heterogeneous data** management so ... These **data** units must also satisfy the ...

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ML Brundage, CA Suver - US Patent App. 10/601,444, 2003 - Google Patents

... a back-end engine which may utilize the QIL semantic **representation** of the ... The queried **data sources** may be relational **data** or non-relational **data**. ...

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[System RX: one part relational, one part XML](#) - [free.fr \[PDF\]](#)

K Beyer, RJ Cochrane, V Josifovski, J Kleewein, G ... - ... ACM SIGMOD international conference on Management of **data**, 2005 - [portal.acm.org](#)

... can provide quick access to a **node** in the ... analysis, which is built on explicit **data** flow **representation** ... a **query** block into a single pattern **tree representation**. ...

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[\[PDF\] •DB2 goes hybrid: Integrating native XML and XQuery with relational data and SQL](#)

K Beyer, R Cochrane, M Hvizdos, V Josifovski, J ... - IBM Systems Journal, 2006 - [www-tr.watson.ibm.com](#)

... are converted into a hierarchical **representation** of the XML ... shows the simplified CREATE INDEX **Data** Definition Language ... j * :ncname kind-test ::¼ **node**() j text ...

[Cited by 19](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 7 versions](#)

[Object Modeling for Mapping XML Document Represented in XML-GDM to UML Class Diagram](#)

D Park, C Yoo, Y Kim, S Yeom - LECTURE NOTES IN COMPUTER SCIENCE, 2006 - Springer

... Feature XML DOCUMENT Graphic **Representation** ... First child **node** of containment arcs will be stroked ... Quilt: An XML **Query** Language for **Heterogeneous Data Source**. ...

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[\[PDF\] •IMS Query Services White Paper](#)

AR Reserved - [imglobal.org](#)

... these steps; ie, when a **Query** Agent (the **source** of a ... references to elements of one or more **data** models expressed ... that is, it is the actual **representation** of a ...

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[PS] [Rule-based Application Integration using XML by](#)

H Zhang - cs.ualberta.ca

... or federated database has identified **representation** ... address arbitrary locations inside **tree-structured** ... managing **heterogeneous data sources**, and lacks of active ...

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[PDF] [Semi-automatic Mapping-based Integration of Heterogeneous Collections into Archaeological Digital ...](#)

A Raghavan - 2005 - scholar.lib.vt.edu

... flexible, and manageable approach to integrating **heterogeneous data** from different **sources** into a ... An approach that combines visual **representation** and an ...

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[PDF] [A UNIFIED PEER-TO-PEER DATABASE FRAMEWORK FOR XQUERIES OVER DYNAMIC DISTRIBUTED CONTENT AND ITS ...](#)

W Hoschek, A DES, AG EINES, DDERT WISSENSCHAFTEN, ... - Technical University of Vienna, 2003 - big.tuwien.ac.at

... a large variety of unreliable, frequently changing, autonomous and **heterogeneous** remote **data sources**. ... applications for a wide range of **data** types (typed ...

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[Visual exploration and retrieval of XML document collections with the generic system X 2 - *imv.de* \[PDF\]](#)

H Meuss, KU Schulz, F Weigel, S Leonardi, F Bry - International Journal on Digital Libraries, 2005 - Springer

... set of manipulation techniques for the visual **representation** of CAAs ... need, appropriate parts of the **data** must be ... A textual **node** is said to contain a keyword ...

[Cited by 9](#) - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

[Data flow testing of service-oriented workflow applications - *hku.hk* \[PDF\]](#)

L Mei, WK Chan, TH Tse - Proceedings of the 13th international conference on Software ..., 2008 - portal.acm.org

... often employ a collection of **heterogeneous** but closely ... for services testing research using open-**source** programs ... that **XPath** may retrieve different **data** from XML ...

[Cited by 2](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[PDF] [HYDROSEEK: an ontology-aided data discovery system for hydrologic sciences](#)

B Beran - 2007 - 144.118.25.24

... unified view despite **heterogeneity** issues within and among ... Using the soil attributes, this **data** base serves as an excellent **source** for determining erodible ...

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[BOOK] [Information Integration with Ontologies: Experiences from an Industrial Showcase](#)

V Alexiev - 2005 - books.google.com

... in the new world of vast, **heterogeneous** information **sources**. ... abstract from the physical **representation**, they can ... to specify semantics to a set of **data sources**. ...

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[PS] [Bulletin of the Technical Committee on](#)

A Maedche, S Staab, R Studer, Y Sure, R Volz, Y ... - Urbana - research.microsoft.com

... Importance without Storing the **Graph** of the Web ... and ontologies for richer **data representation** and and ... in a mediator for integrating **heterogeneous data sources**. ...

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[PDF] [Efficient Delivery of Web Services](#)

M Ouzzani - 2003 - nvc.cs.vt.edu

... nectivity to a wealth of information **sources** and services which ... of the Web has rekindled the issue of **data** sharing across **heterogeneous** and autonomous databases ...

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A taxonomy of grid monitoring systems - [man.ac.uk](#) (PDF)

S Zariwolas, R Sakellariou - Future Generation Computer Systems, 2005 - Elsevier

... the lack of consensus regarding **data representation**, protocols and ... a hierarchy of republishers every **node** collects and ... set of monitoring **data sources**, that are ...

[Cited by 57](#) - [Related articles](#) - [Web Search](#) - [All 6 versions](#)

Confidentiality Enforcement for XML Outsourced Data

B Carminati, E Ferrari - LECTURE NOTES IN COMPUTER SCIENCE, 2006 - Springer

... the project 'Web-based management and **representation** of spatial ... to **query** XML documents with **heterogeneous** content ... to, generated according to the **data** domain ...

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[PDF] 3.4. ARTIFICIAL INTELLIGENCE PERSPECTIVE: KNOWLEDGE ACQUISITION AND REPRESENTATION

UWA Technologies - DEPARTAMENTO DE INFORMÁTICA - [idx.cesca.es](#)

... the problem related with device **heterogeneity**, is that the ... at the root **node** in the **source tree** and processes ... operate on **tree-like** document **data** model described ...

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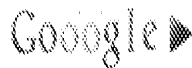
Multi-level annotation in the Emu speech database management system - [upenn.edu](#) (PDF)

S Cassidy, J Harrington - Speech Communication, 2001 - Elsevier

... As an example, the Emu **source** distribution contains a ... for creation, management, querying and analysis of **data** from speech ... 6.1.2. **Heterogeneous** relation graphs. ...

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